

**EXPANDED SITE INSPECTION 2
GREENWOOD MILLS LINER PLANT
ORANGEBURG, SOUTH CAROLINA
ORANGEBURG COUTY
SCD 044 939 569**

Prepared for:





**U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
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September 29, 2014

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1.0 INTRODUCTION

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Site Assessment Section, South Carolina Department of Health & Environmental Control (DHEC) conducted an Expanded Site Inspection (ESI) at the Greenwood Mills Liner Plant site in Orangeburg County, South Carolina. The information gathered from this investigation will be used to decide if the site will be proposed to the National Priority List (NPL) or managed by some other means.

Sampling to evaluate the Surface Water Pathway was conducted in July 2014. Twenty one (21) sediment samples from seven (7) transect locations were collected from the North Fork of the Edisto River. No constituents were detected above elevated levels.

2.0 LOCATION

The site is located at 1000 Southern Patio Parkway, in a rural area on Hwy 21, between the towns of Orangeburg and Rowesville, SC. The area around the site is primarily residential and agricultural. The geographic coordinates (Office door of facility) for the site are 33.416627° North, -80.848862° West (see Appendix C). The entire facility encompasses approximately 282 acres (Ref. 1, 2).

3.0 OWNERSHIP

Main Facility

2003– present:

Southern Patio

1000 Southern Patio Parkway

Rowesville, SC 29133-9493

WWTP and Landfills

2007-Present

Steven Till

183 Tillson Lane

Orangeburg, SC 29115

Previous owners include:

1963 – 1968: Fabric Services Inc, a division of Monsanto

1968-2003 and 2007: Greenwood Mills, Inc.

4.0 SITE DESCRIPTION / REGULATORY HISTORY

The Greenwood Mills Liner Plant site was built by Monsanto in 1964 as a synthetic textile dyeing and finishing plant. Processes at the facility included bleaching, mercerizing, dyeing, coating, and finishing. Chromium and PCE were used in the operation in addition to various dyes. The plant was purchased by Greenwood Mills in 1968 and continued to operate until 1988 (Ref. 3, 4).

The site is bordered by Hwy 21 to the east, managed woodland to the south, the North Fork of the Edisto River (NF Edisto) to the west, and a large retirement village complex to the north called Methodist Oaks (Figure 1, Ref. 1, 2, 4) .

The site has been divided into two separate parcels and sold (refer to section 3.0). The plant building, former water purification building, and several support buildings are currently owned by Southern Patio which uses the main building as a warehouse. The main building is intact but many other structures on this portion of the property are being demolished for scrap by a third party. The former power plant / waste disposal unit are largely intact but in a state of disrepair (Ref. 4).

The wastewater treatment units, sprayfields, outfall, and landfill areas are on a second tract of land privately owned and used for hunting. The landowner has used heavy equipment to dramatically alter the area (Ref. 4). The facility's waste was managed in an on-site wastewater treatment plant in unlined lagoons. Because of a caustic pH issue associated with previous operations, spent acid from Lobeco and Ethyl Corporation was used to balance the wastewater pH. Approximately 700,000 pounds of spent acid was added to the system each month beginning in 1984. On November 5, 1987, a letter from L.E. Lester (Engineering Advisor to Greenwood Mills) to Harold Seabrook (SCDHEC) stated spent acid is not a waste under regulation R.61-79.261.2(e)(1)(ij); therefore, reporting will be discontinued regarding quantity of spent acid being used at Greenwood Mills. Seabrook wrote a letter of concurrence on November 30, 1987. Beginning in 1975 until its closure, the facility operated under a NPDES permit. The wastewater treatment process generated sludge that was sprayed onto two sprayfields for about eight years. In 1987 a sludge press was constructed and went into operation. Sludge was shipped to a local landfill for disposal. However, discharge by Fabric Services, Inc. (Monsanto) began in 1965 of 2 million gallons a day industrial waste and 0.46 million gallons a day domestic waste. In 1968, analytical data showed that effluent discharged in to the river had a pH of 11.45-11.7 and Cr of 3 to 5.8 ppm. The plant shut down and discharges ended in 1989. A letter confirming cancellation of the NPDES permit was issued in February, 2003 (Ref. 3,4).

In July 1981, Greenwood Mills submitted a CERCLA103C notification of CERCLA activities pertaining to two on-site landfills that contained manufacturing and construction waste. CERCLA Section 103(c) requires facilities that have "stored, treated, or disposed of" hazardous wastes and where there is "known, suspected, or likely releases" of hazardous substances to report their activities to EPA. These landfills were operated as open-burn sites until they were closed in 1973 when open burning was banned. A nine-story coal-fired power generation plant

was operational at the site in the 1960s and 1970s. From 1980-1983, the plant operated under interim status as a RCRA-TSD facility. During this time, a mixture of waste oil and solvent was burned in their boiler (Ref. 3, 4).

As a result of the 103C notification, DHEC conducted a Preliminary Assessment at the site in 1988 which recommended a Site Inspection with a medium priority. A Site Inspection was performed by NUS under contract to the USEPA in 1990 and the associated 1991 report recommended a listing Site Inspection with a medium priority. A Site Inspection Prioritization Report in 1993 indicated surface water data needed to be collected at the site. In 2002, limited sampling was performed on surface water at the site by DHEC's Site Assessment program. Tetrachloroethene was detected in the Edisto River during the 2002 investigation (7 µg/l) above its Maximum Contaminant Limit (MCL) of 5µg/L. Because wastewater permitting authority was under DHEC's Bureau of Water (BOW), the site was referred to the BOW for oversight and therefore no further action was planned under Federal Superfund (Ref. 3, 4).

The BOW required Greenwood Mills to install and periodically sample selected monitoring wells around the wastewater treatment units. Following a review of DHEC file information on the site, DHEC staff determined that an examination of current site conditions was warranted. A 2012 site visit and review of monitoring well construction information by DHEC's Site Assessment and Remediation Division suggests many of the monitoring wells are side gradient to upgradient of areas of concern, and that the wells were screened in a manner and at intervals that may have missed zones of groundwater contamination. The 2012 DHEC site visit also identified a number of potential source areas that have not been sampled or have not been sampled adequately (Ref. 3, 4).

SCDHEC conducted environmental sampling at the site April 2013 as part of an Expanded Site Inspection (ESI). Chlorinated solvents and arsenic were found above MCLs in Groundwater.

PCB 1262 was found at elevated concentrations across the site. The average concentration of PCB 1262 at the site was 2379 µg/kg. The highest concentration detected was 13,000 µg/kg. The presence of PCB 1262 in the soil samples created difficulty for the contract laboratory to adequately analyze for PCB 1260, therefore, actual levels of PCB 1260 in most soil samples collected is currently unknown. Arsenic and vanadium were found at concentrations above EPA RSLs for industrial soils (Ref 4).

Elevated concentrations of PCBs 1260, 1262, and chromium were found above EPA Region 4 Sediment Screening Values in sediment collected along the North Fork Edisto River, adjacent to the site (Ref 4.).

Prior to the 2013 sample collection, the area experienced an extended period of record rainfall. The large amount and duration of the precipitation resulted in higher than normal stream flow. During the ESI sampling event, the NF Edisto River was higher than during the screening event. Sample teams were unable to reach the proposed sampling points (determined during screening) due to excessive water depth. Samples collected from the NF Edisto were collected as close to

the screening locations as possible. Water and sediment sampling locations were more than likely above the normal river bed and stream height. While elevated concentrations of PCBs and chromium above Region Screening Values were detected in sediment samples from the NF Edisto, the actual impact to the river could not be adequately evaluated (Ref. 4).

4.1 SOURCE IDENTIFICATION

The primary source areas at the site are concentrated around the former WWTP owned by the hunting club (Figure 3, Ref. 4):

Sprayfields

Two sprayfields (northern and southern) are present at the site. Both are approximately 750' long by 500' wide. Until the mill's sludge press building was built, processed sludge was sprayed on the fields. A portion of the northern spray field was excavated during the installation of the equalization basin. The northern field is also currently being used as a food plot to attract wild game. The southern spray field is currently covered in a dense pine stand (Ref. 4) .

Clarifiers

Two clarifiers, with a total area of 19737 sq ft and of unknown depth remain on site with equipment attached. The water within the clarifiers is bright green. There are no groundwater monitoring points downgradient of the clarifiers (Ref. 4) .

Eastern Landfill

This area was reported in a CERCLA 103C notification. The contents of the 52,000 sq.ft. landfill have not been sampled. The landfill received manufacturing and construction waste. The landfill was operated as an open-burn site until it was closed in 1973. A small pond has been created at the toe of the east landfill. Additionally, a large area has been excavated to the south and east of this landfill to create additional duck ponds. The excavation extends to what is believed to be the boundary of the east landfill. No visible debris associated with the landfill has been exposed (Ref 4).

Western Landfill

This site was reported in a CERCLA 103C notification. The contents of the 135,000 sq. ft. landfill have not been sampled. It is possible that coal ash was disposed in this area. The landfill received manufacturing and construction waste. The landfill was also operated as an open-burn site until it was closed in 1973 (Ref. 4).

Northern Lagoon

The 70,000 sq. ft. northern lagoon is currently surrounded by a dike which was installed in order to control a foam that overflowed the lagoon and drain into the river on several occasions during its operational history. The dates and number of occurrences of this foam release are not known. The northern lagoon is the only place where foaming was reported to be an issue on site. The lagoon is full of water of an unknown volume. An iron discharge pipe surrounded by a brick casing was discovered in the woods next to the northern lagoon. No record of this pipe could be

found in the DHEC file. The pipe is constructed in a similar manner as the NPDES regulated discharge point. Effluent from the newly discovered pipe discharges into a wooded marsh area that eventually drained into the NF Edisto (Ref. 4).

Southern Lagoon

This 75,000 sq. ft. lagoon was the final treatment area for wastewater before the water was sent to on-site clarifiers. The landowner has used heavy equipment to alter the area. Portions of the lagoon have been excavated and bermed in an attempt to create a duck pond. The lagoon appeared to have been unlined. Grey clay like material was noted at the bottom of one of the holes dug by the current owner (Ref. 3, 4).

Outfall into the NF Edisto River

The 1000 ft long channel that once routed water from the WWTP to the site's National Pollutant Discharge Elimination System (NPDES) outfall into the NF Edisto have been severely impacted by beaver activity. Several acres of the area from the river to the clarifiers have now become swampland (Ref. 4).

Power Plant

According to a Greenwood Mills official, this was a 9 story high coal fired power plant. From 1980-83, the boiler in the facility received an unknown amount of waste oil and solvents during its operation under RCRA-TSD Interim Status. The building was demolished prior to 2005 (Ref. 2, 4).

Drainage Pipe

A large concrete pipe (approximately 36" in diameter) was found jutting out of the earth between the clarifiers and the east landfill. The pipe leads away from the WWTP toward the NF Edisto River. The purpose of this drainage pipe is not known. It appears that the pipe was at one time buried, but it is now exposed due to erosion of soil beneath it. The eroded ditch beneath the exposed pipe was approximately 15 feet deep with what appeared to be a spring at the bottom of it. Presumably, the spring underneath the pipe eroded the soil to the point of collapse, exposing the drainage pipe. The spring has formed a creek that flows into the beaver made swamp (Ref. 4).

5.0 PATHWAY EVALUATION

SCDHEC conducted an evaluation of the Surface Water Pathway at the site Plant on July 29, 2014. The purpose of this investigation was to properly evaluate the pathway since high water levels prevented adequate study during the 2013 ESI. Sediment samples were collected and analyzed for metals and PCBs (Aroclors).

5.1 GROUNDWATER MIGRATION PATHWAY

Groundwater Use

No records were found and no observations were made that indicate groundwater is being used for consumption in the area surrounding the site. The warehouse is supplied by municipal water and the hunt club does not have an onsite water source. The retirement village to the north is supplied by local municipal water. The area receives its water from the city of Orangeburg. Orangeburg obtains its water from the NF Edisto, approximately 7.5 river miles upstream from the site. Based on local topography, groundwater from the site flows west toward the NF Edisto River. (Refs 1, 4, 8)

The purpose of this investigation was to adequately characterize the Surface Water Pathway. The Groundwater Migration Pathway was not evaluated.

5.2 SURFACE WATER MIGRATION PATHWAY

Regional Characteristics

Runoff from the site and the mill's former NPDES outfall empty into the NF Edisto River. The entire 15-mile Target Distance Limit (TDL) is located in the NF Edisto River. The NF Edisto is used extensively for fishing and recreational activities. DHEC has a fish consumption advisory for the entire TDL for Mercury. Wetlands line the entire TDL for a length of 30 linear frontage miles (both banks of the river). Source areas are not in a flood plain (Ref 1, 2, 4, 9, 10, 11).

Surface Water Impact

SCDHEC collected 21 sediment samples from seven (7) locations on the North Fork of the Edisto River on July 29, 2014. Six (6) locations were compared to a control sample collected upstream from the site. Each sample location consisted of a three point transect across the river, for a total of three samples per location (21 total). A grab sample was collected from both banks of the river as well as a grab sample from mid-stream. Each sample point examined the first six (0-6") inches of sediment (Table 1, Figure 4).

Elevated levels (greater than three times control levels) of metals were not found in any of the downstream sediment samples. Additionally, metal constituents were below the USEPA's Region 4 Sediment Screening Values (SSV) for metals (Refs 6, 7).

Sediment sample GML-104-M, collected mid-stream at the site's former NPDES discharge was the only sediment sample to contain PCB 1260 (5.4 µg/kg). This Aroclor, along with PCB 1262 was found in elevated concentrations across the site during the 2013 ESI investigation (Ref. 4, 6).

PCB 1254 was detected in sediment samples GML-105W (40 µg/kg) and GML-106-E (9.3 µg/kg). While sample GML-105W exceeds the SSV for PCBs (33 µg/kg), it is not considered elevated due to the presence of this Aroclor in the control sample GML-101E at 30 µg/kg. PCB

1254 was not detected on the site during the previous ESI. Therefore, it cannot be linked to past site activities.

5.3 SOIL EXPOSURE / AIR PATHWAYS

No schools or daycare centers are found within a 200 foot radius of the site. No workers are presently employed in the area the WWTP and landfills are located. This area is used exclusively for hunting and outdoor recreation. The Federally Endangered Red Cockated Woodpecker (*Picoides borealis*) and Canby's Dropwort (*Oxypolis canbyi*) are documented to live within the area (Ref 12). The warehouse area of the site employs approximately 50 people. The closest residence is 650 feet north of the facility (Ref. 1, 2, 4).

The purpose of this investigation was to adequately characterize the Surface Water Pathway. The Soil Exposure / Air Pathways were not evaluated.

6.0 SUMMARY / CONCLUSIONS

The Greenwood Mills Liner Plant site was built by Monsanto in 1964 as a synthetic textile dyeing and finishing plant. Processes at the facility included bleaching, mercerizing, dyeing, coating, and finishing. Chromium and PCE were used in site operations in addition to various dyes. The plant was purchased by Greenwood Mills in 1968 and continued to operate until 1988.

Environmental sampling of the Surface Water Pathway was conducted by SCDHEC in July 2014. Due to high river levels encountered during the 2013 ESI, an adequate evaluation of the pathway could not be conducted. 21 sediment samples from 7 transect locations were analyzed for metals and PCBs. No constituents attributable to past site operations were detected at elevated concentrations or above EPA Sediment Screening Values in the sediment samples. PCB 1254 was detected above its SSV, but it was not found on site during the 2013 ESI, making attribution to the site problematic.

Due to the lack of contamination in the North Fork of the Edisto River that could be associated with past site activities, it is recommended that no further work under CERCLA be conducted at this time. The site will be referred to the State Superfund Remedial section for further evaluation.

7.0 REFERENCES

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APPENDIX A: MAPS / FIGURES

Figure 1: Greenwood Mills – Liner, Aerial View





Figure 4: Sediment Sampling Locations

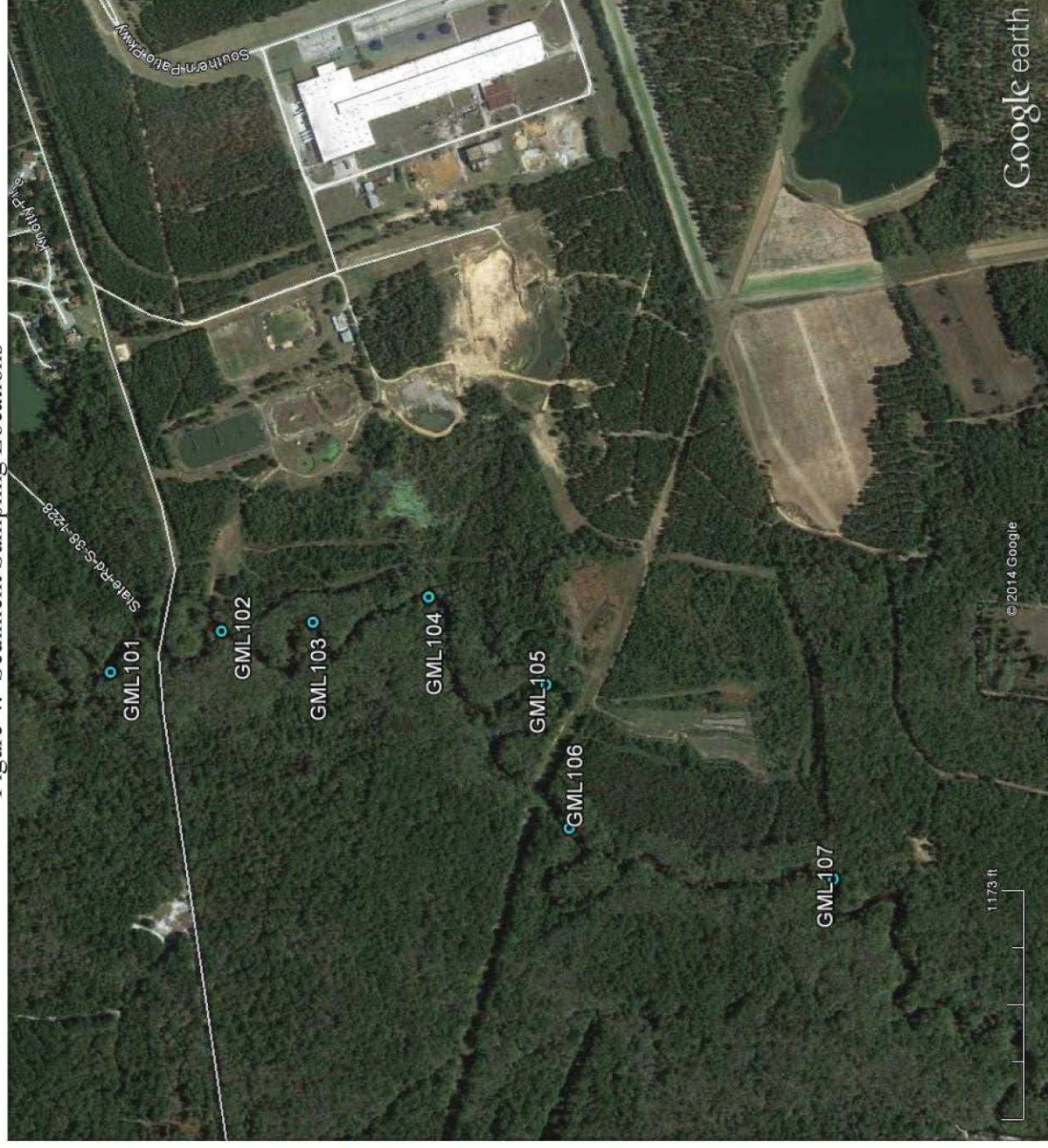


Table 1 : July 2014 Sediment Sampling

Sample ID	Sample Media / Analyses	Location/Rationale	Notes/Sample Description	Collected By	Time	GPS Coordinates	
GML101E	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Taken from eastern edge of the North Fork of the Edisto River, upstream from the site. Rationale: To be used as a background/control location	Silty brown sediment. Some organic matter mixed. 0-6"	Jason Williams	7/29/14 17:20	-80.8593	33.41957
GML101M	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Taken from middle of the North Fork of the Edisto River, upstream from the site. Rationale: To be used as a background/control location	Brown and tan coarse sandy silt. 0-6"	Jason Williams	7/29/14 17:17	-80.8593	33.41967
GML101W	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Taken from western edge of the North Fork of the Edisto River, upstream from the site. Rationale: To be used as a background/control location	Brown silt mixed with organic matter and tan tan coarse sand. 0-6"	Jason Williams	7/29/14 17:12	-80.8595	33.41958
GML102E	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: East edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Light brown silty sand with some fine organic matter. 0-6"	Jason Williams	7/29/14 16:55	-80.8585	33.41796
GML102M	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Middle of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Coarse tan sand. 0-6"	Jason Williams	7/29/14 16:57	-80.8586	33.41801
GML102W	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: West edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Coarse tan sand mixed with brown silt. 0-6"	Jason Williams	7/29/14 17:04	-80.8586	33.41807
GML103E	Sediment Aroclors ICP-AES Metals	Location: East edge of North Fork of Edisto River along site boundary.	Dark brown silty clay. 0-6"	Jason Williams	7/29/14 11:50	-80.8585	33.41678

	Mercury Cyanide	Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway					
GML103M	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Middle of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	0-6". Tan coarse sand with some organic matter intermingled.	Jason Williams	7/29/14 11:25	-80.8585	33.41675
GML103W	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: West edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Brown silty sediment. Natural organic odor. 0-6"	Jason Williams	7/29/14 11:30	-80.8585	33.41676
GML104E	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: East edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Under 1' of water. Collection depth 0-6". Large grain clean sand on top, dark brown to black below.	Jonathan McInnis	7/29/14 12:25	-80.8581	33.41533
GML104M	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Middle of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Under 3' of water. Collection depth 0-8". Clean, large sand on top, finer with dark organics below.	Jonathan McInnis	7/29/14 12:15	-80.8582	33.41515
GML104W	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: West edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Under 5' of water. Collection depth 0-8" of sediment. Dark, Fine-grained sand mixed with dark organic material.	Jason Williams	7/29/14 12:21	-80.8582	33.41516
GML105E	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: East edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Under 5' of water. Collection depth 0-6", light to dark brown silty sand.	Jonathan McInnis	7/29/14 11:50	-80.8593	33.41347

GML105M	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Middle of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Under 3' of water. Collection depth 0-6". Clean sand,	Jason Williams	7/29/14 12:45	-80.8595	33.41354
GML105W	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: West edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Under 2' of water. Collection depth 0-8". Dark, sandy silt.	Jason Williams	7/29/14 12:50	-80.8595	33.4137
GML106E	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: East edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	2" under water, collection depth 0-6" of sediment. Grayish-black sandy silt.	Karen Seaber	7/29/14 11:20	-80.8618	33.41309
GML106M	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: Middle of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Under 4.5' of water, grayish-black sandy silt. 0 – 6" sediment collection depth.	Jonathan McInnis	7/29/14 11:15	-80.8618	33.41309
GML106W	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: West edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Dark brown silty sediment. Natural organic odor. 0-6"	Jason Williams	7/29/14 13:20	-80.8621	33.41335
GML107E	Sediment Aroclors ICP-AES Metals Mercury Cyanide	Location: East edge of North Fork of Edisto River along site boundary. Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway	Light brown silty sand with some fine organic matter. 0-6"	Jason Williams	7/29/14 14:20	-80.8627	33.40942

GML107M	<p>Sediment</p> <p>Aroclors ICP-AES Metals Mercury Cyanide</p>	<p>Location: Middle of North Fork of Edisto River along site boundary.</p> <p>Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway</p>	Coarse tan sand mixed with brown silt. 0-6"	Jason Williams	7/29/14 14:30	-80.8628	33.41023
GML107W	<p>Sediment</p> <p>Aroclors ICP-AES Metals Mercury Cyanide</p>	<p>Location: West edge of North Fork of Edisto River along site boundary.</p> <p>Rationale: To determine if there has been a release of constituents from the site that may impact the surface water pathway</p>	Coarse tan sand. 0-6"	Jason Williams	7/29/14 14:00	-80.863	33.4095

APPENDIX B: TRIP REPORT

Trip Report
Greenwood Mills – Liner Plant
July 29, 2014
Jason C Williams

SCDHEC conducted sediment sampling on the portion of the North Fork of the Edisto River adjacent to the site. Sediment sampling was conducted following the guidelines provided in the QAPP. Samples GML101 thru 103E-M-W, 104W, 105M, 105W, 106W, and 107E, M, W were collected from a kayak while the remainders were collected by wading to the sample location. Sample details are outlined in Table I above.

Trip Report
Greenwood Mills – Liner Plant
February 7, 2013
Jason C Williams

SCDHEC conducted a site screening of the Liner Plant on January 28-31, 2013 and again on February 6, 2013. The purpose of the screening was to determine potential locations to collect environmental samples for lab analysis as part of a Expanded Site Inspection. Soil samples from the site and sediment samples from the North Fork of the Edisto River (NF Edisto) were screened using a XRF to evaluate metals concentrations. Surface water samples and groundwater samples collected using Geoprobe DPT were screened using Color Tech kits for the presence of chlorinated solvents.

The site has been divided in to two separate areas and sold. The plant building, former power plant and waste disposal unit, and several support buildings are owned by Southern Patio which uses the main building as a warehouse. The main building is intact but many other structures on the property are being demolished for scrap by a third party. The former power plant / waste disposal unit are largely intact but in a state of disrepair. The wastewater treatment units, sprayfields, outfall, and landfill areas are on a tract of land privately owned and used for hunting. The landowner has used heavy equipment to dramatically alter the area. Portions of one lagoon have been excavated and bermed in an attempt to create a duck pond. The lagoon appeared to have been unlined. A grey clay like material was noted at the bottom of one of the holes dug by the current owner. A smaller pond had also been created at the toe of the east landfill. Additionally large area had been excavated to the south and east of this landfill to create additional duck ponds. The excavation extends to what is believed to be the boundary of the east landfill. No debris associated with the landfill was exposed; indicating a breach has not yet occurred.

The channel that once routed water from the WWTP to the site's NPDES into the NF Edisto have been severely impacted by beaver activity. Several acres of this area have now become swampland, from the river to the clarifiers.

A discharge pipe was found in the woods next to the northern lagoon (full lagoon). No record of this pipe could be found in the SCDHEC file. The pipe was enclosed in a brick structure similar to the regulated discharge, suggesting that it was constructed at the same time. Effluent from the pipe would discharge into a wooded marsh area that eventually drained into the NF Edisto.

A large diameter pipe (~36") was found jutting out of the earth between the clarifiers and east landfill. The pipe led away from the WWTP toward the river. The pipe was at one time buried but erosion has caused soil beneath the pipe to give way, exposing it. The eroded ditch was approximately 15 feet deep with what appeared to be a spring at the bottom of it. The spring formed a creek that flowed into the beaver made swamp.

The northern sprayfield was being used as a food plot to attract wild game.

No water or electricity is supplied to the WWTP area. No consumption wells are available. The Warehouse obtains city water. The Methodist oaks village front desk stated they were on "city water".

46 soils 29 surface water and sediment, and 8 Geoprobe locations were collected. Screening locations are shown in the attached Figure 1. High levels of Chromium were found throughout the site with the highest concentration in the dry lagoon at 62995 ppm. Arsenic was found in sediments collected from the clarifier at 133 ppm as well as lead at 1635 ppm. 8 sediment locations had Cr above 100ppm.

One Geoprobe location between the main building and the power plant contained TCE in groundwater at 35 ppb and had a pH of 9.75.

Sampling for lab analysis will be conducted the week of April 1, 2013.

APPENDIX C: SITE COORDINATE COLLECTION

Site Latitude: 33.416627° North,

Site Longitude: -80.848862° West

Feature Description: Office Entrance

Collection Date: January 31, 2013

Note: Coordinates collected by consumer-grade GPS with WAAS (estimated accuracy 5-10 meters).

APPENDIX D: ATTACHED REFERENCES



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 14-0383
Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

September 3, 2014

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 14-0383, Greenwood Mills Liner Plt
Superfund Remedial

FROM: Denise Goddard
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Corey Hendrix

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these dat

Analyses Included in this report:

Method Used:

Classical/Nutrient Analyses (CNA)

Cyanide

CLP Inorganics (Soil)

Total Metals (TMTL)

Total Mercury
Total Metals

CLP Inorganics (Soil)
CLP Inorganics (Soil)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Pit - Reported by Denise Goddard

Report Narrative for Project: 14-0383

Inorganic Data Review and Validation Report

Site Name: Greenwood Mills Liner Pit, Orangeburg, SC

Case No.: 44545, Project No. 14-0383, Work Order Nos.: C143301, C143303

ELEMENT Sample IDs.: C143301-01 – 21, C143303-01 - 03

Sampling Date(s): 7/29/14

Validated Time of Sample Receipt: 7/31/14

Laboratory Performing Inorganic Analyses: Chemtech Consulting Group, Mountainside, NJ

Date Received from Lab: 8/12/14

Analyses conducted: Total Metals, Mercury, and Cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 24 soil samples for total metals by ICP-AES analyses, mercury, and cyanide according to the contract Statement of Work (SOW) ISM01.3 and EPA data review guidelines. This package presents acceptable contractual and technical performance with qualifications. Additional details are provided below.

Examination of laboratory blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as ten times the blank levels to discount possible false positives due to contamination in laboratory blanks.

ICP-AES Analysis

PE Sample Results

The performance evaluation sample (PES) recoveries for metals in soil by ICP-AES were scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied to the metals results on the basis of these criteria.

Other QA/QC Results

There were no other QA/QC problems observed for metals analysis. Therefore, no data qualifiers were applied to the sample results for metals based on these criteria.

Mercury Analysis

PE Sample Results

The PES recovery for mercury in soil was scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied to the mercury results on the basis of these criteria.

Other QA/QC Results

There were no other QA/QC problems observed for mercury analysis. Therefore, no data qualifiers were applied to the sample results for mercury based on these criteria.

Cyanide Analysis

PE Sample Results

The PES recovery for cyanide in soil was scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied to sample results for cyanide on the basis of these criteria.



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Other QA/QC Results

There were no other QA/QC problems observed for cyanide analysis. Therefore, no data qualifiers were applied to the sample results for cyanide based on these criteria.

A Stage 4 validation consisting of electronic and manual review was performed on the inorganic samples submitted for this case.

cc: Nardina Turner



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Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

SAMPLES INCLUDED IN THIS REPORT

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
GML-101E-SD	C143301-01	9097	9097	Sediment	7/29/14 17:20
GML-101M-SD	C143301-02	9098	9098	Sediment	7/29/14 17:17
GML-101W-SD	C143301-03	9099	9099	Sediment	7/29/14 17:12
GML-102E-SD	C143301-04	9101	9101	Sediment	7/29/14 16:55
GML-102M-SD	C143301-05	9100	9100	Sediment	7/29/14 16:57
GML-102W-SD	C143301-06	9102	9102	Sediment	7/29/14 17:04
GML-103E-SD	C143301-07	9105	9105	Sediment	7/29/14 11:50
GML-103M-SD	C143301-08	9104	9104	Sediment	7/29/14 11:25
GML-103W-SD	C143301-09	9103	9103	Sediment	7/29/14 11:30
GML-104E-SD	C143301-10	9106	9106	Sediment	7/29/14 12:25
GML-104M-SD	C143301-11	9107	9107	Sediment	7/29/14 12:15
GML-104W-SD	C143301-12	9108	9108	Sediment	7/29/14 12:21
GML-105E-SD	C143301-13	9109	9109	Sediment	7/29/14 11:50
GML-105M-SD	C143301-14	9110	9110	Sediment	7/29/14 12:45
GML-105W-SD	C143301-15	9111	9111	Sediment	7/22/14 12:50
GML-106E-SD	C143301-16	9113	9113	Sediment	7/29/14 11:20
GML-106M-SD	C143301-17	9112	9112	Sediment	7/29/14 11:15
GML-106W-SD	C143301-18	9114	9114	Sediment	7/29/14 13:20
GML-107E-SD	C143301-19	9116	9116	Sediment	7/29/14 14:20
GML-107M-SD	C143301-20	9117	9117	Sediment	7/29/14 14:30
GML-107W-SD	C143301-21	9115	9115	Sediment	7/29/14 14:00



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP36	Identification/Concentration of analyte not confirmed by ICP-MS.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101E-SD

Lab ID: C143301-01

MD No: 9097 CHEM

Station ID: GML101E

Matrix: Sediment

D No: 9097 SHEALY

Date Collected: 7/29/14 17:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	J, Q-2	mg/kg dry	0.30	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	10000		mg/kg dry	47	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	14	U	mg/kg dry	14	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	2.8	CLP36	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	91		mg/kg dry	47	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	1.1	J, Q-2	mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.58	J, Q-2	mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	1500		mg/kg dry	1200	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	15		mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	11	J, Q-2	mg/kg dry	12	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	8.7		mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	8600		mg/kg dry	24	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	24		mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	330	J, Q-2	mg/kg dry	1200	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	210		mg/kg dry	3.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	7.5	J, Q-2	mg/kg dry	9.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	1200	U	mg/kg dry	1200	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	1.5	J, CLP36, Q-2	mg/kg dry	8.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	2.4	U	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	120	J, Q-2	mg/kg dry	1200	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	5.9	U	mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	18		mg/kg dry	12	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	66		mg/kg dry	14	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101E-SD

Lab ID: C143301-01

MD No: 9097 CHEM

Station ID: GML101E

Matrix: Sediment

D No: 9097 SHEALY

Date Collected: 7/29/14 17:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	31		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.13	J, Q-2	mg/kg dry	1.6	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101M-SD

Lab ID: C143301-02

MD No: 9098 CHEM

Station ID: GML101M

Matrix: Sediment

D No: 9098 SHEALY

Date Collected: 7/29/14 17:17

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.42		mg/kg dry	0.14	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	630		mg/kg dry	21	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	6.3	U	mg/kg dry	6.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	1.1	U	mg/kg dry	1.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	5.8	J, Q-2	mg/kg dry	21	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.090	J, Q-2	mg/kg dry	0.53	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.030	J, Q-2	mg/kg dry	0.53	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	200	J, Q-2	mg/kg dry	530	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	1.3		mg/kg dry	1.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.58	J, Q-2	mg/kg dry	5.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.46	J, Q-2	mg/kg dry	2.6	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	480		mg/kg dry	10	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	1.7		mg/kg dry	1.1	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	31	J, Q-2	mg/kg dry	530	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	11		mg/kg dry	1.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.62	J, Q-2	mg/kg dry	4.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	530	U	mg/kg dry	530	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.27	J, CLP36, Q-2	mg/kg dry	3.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	1.1	U	mg/kg dry	1.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	530	U	mg/kg dry	530	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.6	U	mg/kg dry	2.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	0.98	J, Q-2	mg/kg dry	5.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	9.0		mg/kg dry	6.3	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101M-SD

Lab ID: C143301-02

MD No: 9098 CHEM

Station ID: GML101M

Matrix: Sediment

D No: 9098 SHEALY

Date Collected: 7/29/14 17:17

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	73		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.68	U	mg/kg dry	0.68	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101W-SD

Lab ID: C143301-03

MD No: 9099 CHEM

Station ID: GML101W

Matrix: Sediment

D No: 9099 SHEALY

Date Collected: 7/29/14 17:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.14	U	mg/kg dry	0.14	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	4600		mg/kg dry	24	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	7.3	U	mg/kg dry	7.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.90	J, CLP36, Q-2	mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	29		mg/kg dry	24	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.34	J, Q-2	mg/kg dry	0.61	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.27	J, Q-2	mg/kg dry	0.61	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	660		mg/kg dry	610	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	6.6		mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	2.0	J, Q-2	mg/kg dry	6.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	2.8	J, Q-2	mg/kg dry	3.0	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	2300		mg/kg dry	12	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	13		mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	140	J, Q-2	mg/kg dry	610	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	67		mg/kg dry	1.8	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	2.4	J, Q-2	mg/kg dry	4.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	610	U	mg/kg dry	610	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.27	J, CLP36, Q-2	mg/kg dry	4.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.13	J, Q-2	mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	47	J, Q-2	mg/kg dry	610	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	3.0	U	mg/kg dry	3.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	7.2		mg/kg dry	6.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	28		mg/kg dry	7.3	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101W-SD

Lab ID: C143301-03

MD No: 9099 CHEM

Station ID: GML101W

Matrix: Sediment

D No: 9099 SHEALY

Date Collected: 7/29/14 17:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	62		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.81	U	mg/kg dry	0.81	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102E-SD

Lab ID: C143301-04

MD No: 9101 CHEM

Station ID: GML102E

Matrix: Sediment

D No: 9101 SHEALY

Date Collected: 7/29/14 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	690		mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.3	U	mg/kg dry	5.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.23	J, CLP36, Q-2	mg/kg dry	0.88	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	3.4	J, Q-2	mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.44	U	mg/kg dry	0.44	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.010	J, Q-2	mg/kg dry	0.44	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	110	J, Q-2	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	1.5		mg/kg dry	0.88	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.17	J, Q-2	mg/kg dry	4.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.28	J, Q-2	mg/kg dry	2.2	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	450		mg/kg dry	8.8	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	2.1		mg/kg dry	0.88	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	20	J, Q-2	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	11		mg/kg dry	1.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.33	J, Q-2	mg/kg dry	3.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	440	U	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	3.1	U	mg/kg dry	3.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.88	U	mg/kg dry	0.88	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	440	U	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.2	U	mg/kg dry	2.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	1.3	J, Q-2	mg/kg dry	4.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	4.8	J, Q-2	mg/kg dry	5.3	8/01/14	8/01/14	CLP ISM01.3 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102E-SD

Lab ID: C143301-04

MD No: 9101 CHEM

Station ID: GML102E

Matrix: Sediment

D No: 9101 SHEALY

Date Collected: 7/29/14 16:55

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	82		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.61	U	mg/kg dry	0.61	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102M-SD

Lab ID: C143301-05

MD No: 9100 CHEM

Station ID: GML102M

Matrix: Sediment

D No: 9100 SHEALY

Date Collected: 7/29/14 16:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	210		mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.2	U	mg/kg dry	5.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.87	U	mg/kg dry	0.87	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	1.3	J, Q-2	mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.44	U	mg/kg dry	0.44	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.010	J, Q-2	mg/kg dry	0.44	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	52	J, Q-2	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	0.62	J, Q-2	mg/kg dry	0.87	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.090	J, Q-2	mg/kg dry	4.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	2.2	U	mg/kg dry	2.2	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	180		mg/kg dry	8.7	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	0.49	J, Q-2	mg/kg dry	0.87	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	8.6	J, Q-2	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	2.6		mg/kg dry	1.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.31	J, Q-2	mg/kg dry	3.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	440	U	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	3.1	U	mg/kg dry	3.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.87	U	mg/kg dry	0.87	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	440	U	mg/kg dry	440	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.2	U	mg/kg dry	2.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	4.4	U	mg/kg dry	4.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	5.9		mg/kg dry	5.2	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102M-SD

Lab ID: C143301-05

MD No: 9100 CHEM

Station ID: GML102M

Matrix: Sediment

D No: 9100 SHEALY

Date Collected: 7/29/14 16:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.60	U	mg/kg dry	0.60	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102W-SD

Lab ID: C143301-06

MD No: 9102 CHEM

Station ID: GML102W

Matrix: Sediment

D No: 9102 SHEALY

Date Collected: 7/29/14 17:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.012	J, Q-2	mg/kg dry	0.11	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	1600		mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.9	U	mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.47	J, CLP36, Q-2	mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	18	J, Q-2	mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.19	J, Q-2	mg/kg dry	0.49	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.13	J, Q-2	mg/kg dry	0.49	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	510		mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	2.6		mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	2.5	J, Q-2	mg/kg dry	4.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	1.7	J, Q-2	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	1600		mg/kg dry	9.8	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	4.4		mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	64	J, Q-2	mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	59		mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	1.4	J, Q-2	mg/kg dry	3.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	490	U	mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.20	J, CLP36, Q-2	mg/kg dry	3.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.98	U	mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	39	J, Q-2	mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.4	U	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	3.1	J, Q-2	mg/kg dry	4.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	17		mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102W-SD

Lab ID: C143301-06

MD No: 9102 CHEM

Station ID: GML102W

Matrix: Sediment

D No: 9102 SHEALY

Date Collected: 7/29/14 17:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	77		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.64	U	mg/kg dry	0.64	7/31/14	8/01/14	CLP ISM01.3 AS



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103E-SD

Lab ID: C143301-07

MD No: 9105 CHEM

Station ID: GML103E

Matrix: Sediment

D No: 9105 SHEALY

Date Collected: 7/29/14 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.14	J, Q-2	mg/kg dry	0.23	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	5200		mg/kg dry	32	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	9.7	U	mg/kg dry	9.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	1.1	J, CLP36, Q-2	mg/kg dry	1.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	34		mg/kg dry	32	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.51	J, Q-2	mg/kg dry	0.81	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.28	J, Q-2	mg/kg dry	0.81	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	1500		mg/kg dry	810	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	8.3		mg/kg dry	1.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	6.6	J, Q-2	mg/kg dry	8.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	4.5		mg/kg dry	4.1	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	2700		mg/kg dry	16	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	13		mg/kg dry	1.6	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	240	J, Q-2	mg/kg dry	810	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	33		mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	4.3	J, Q-2	mg/kg dry	6.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	810	U	mg/kg dry	810	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.93	J, CLP36, Q-2	mg/kg dry	5.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	1.6	U	mg/kg dry	1.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	79	J, Q-2	mg/kg dry	810	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	4.1	U	mg/kg dry	4.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	8.7		mg/kg dry	8.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	43		mg/kg dry	9.7	8/01/14	8/01/14	CLP ISM01.3 P



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103E-SD

Lab ID: C143301-07

MD No: 9105 CHEM

Station ID: GML103E

Matrix: Sediment

D No: 9105 SHEALY

Date Collected: 7/29/14 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	43		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	1.2	U	mg/kg dry	1.2	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103M-SD

Lab ID: C143301-08

MD No: 9104 CHEM

Station ID: GML103M

Matrix: Sediment

D No: 9104 SHEALY

Date Collected: 7/29/14 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	270		mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	6.1	U	mg/kg dry	6.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	1.0	U	mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	1.7	J, Q-2	mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.51	U	mg/kg dry	0.51	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.010	J, Q-2	mg/kg dry	0.51	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	68	J, Q-2	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	0.69	J, Q-2	mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.19	J, Q-2	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	2.5	U	mg/kg dry	2.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	190		mg/kg dry	10	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	0.76	J, Q-2	mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	12	J, Q-2	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	4.1		mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.32	J, Q-2	mg/kg dry	4.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	510	U	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	3.6	U	mg/kg dry	3.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	1.0	U	mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	510	U	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.5	U	mg/kg dry	2.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	5.1	U	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	6.8		mg/kg dry	6.1	8/01/14	8/01/14	CLP ISM01.3 P



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103M-SD

Lab ID: C143301-08

MD No: 9104 CHEM

Station ID: GML103M

Matrix: Sediment

D No: 9104 SHEALY

Date Collected: 7/29/14 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.64	U	mg/kg dry	0.64	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103W-SD

Lab ID: C143301-09

MD No: 9103 CHEM

Station ID: GML103W

Matrix: Sediment

D No: 9103 SHEALY

Date Collected: 7/29/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	J, Q-2	mg/kg dry	0.18	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	3200		mg/kg dry	28	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	8.3	U	mg/kg dry	8.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.81	J, CLP36, Q-2	mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	32		mg/kg dry	28	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.36	J, Q-2	mg/kg dry	0.69	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.22	J, Q-2	mg/kg dry	0.69	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	1100		mg/kg dry	690	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	5.0		mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	4.6	J, Q-2	mg/kg dry	6.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	3.0	J, Q-2	mg/kg dry	3.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	2300		mg/kg dry	14	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	8.8		mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	150	J, Q-2	mg/kg dry	690	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	53		mg/kg dry	2.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	3.3	J, Q-2	mg/kg dry	5.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	690	U	mg/kg dry	690	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.49	J, CLP36, Q-2	mg/kg dry	4.8	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	1.4	U	mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	63	J, Q-2	mg/kg dry	690	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	3.4	U	mg/kg dry	3.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	5.3	J, Q-2	mg/kg dry	6.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	27		mg/kg dry	8.3	8/01/14	8/01/14	CLP ISM01.3 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103W-SD

Lab ID: C143301-09

MD No: 9103 CHEM

Station ID: GML103W

Matrix: Sediment

D No: 9103 SHEALY

Date Collected: 7/29/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	53		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.93	U	mg/kg dry	0.93	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104E-SD

Lab ID: C143301-10

MD No: 9106 CHEM

Station ID: GML104E

Matrix: Sediment

D No: 9106 SHEALY

Date Collected: 7/29/14 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.019	J, Q-2	mg/kg dry	0.13	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	650		mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	6.1	U	mg/kg dry	6.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	1.0	U	mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	5.0	J, Q-2	mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.51	U	mg/kg dry	0.51	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.020	J, Q-2	mg/kg dry	0.51	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	210	J, Q-2	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	3.4		mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.22	J, Q-2	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.64	J, Q-2	mg/kg dry	2.6	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	310		mg/kg dry	10	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	1.3		mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	26	J, Q-2	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	13		mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.45	J, Q-2	mg/kg dry	4.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	510	U	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.21	J, CLP36, Q-2	mg/kg dry	3.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	1.0	U	mg/kg dry	1.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	43	J, Q-2	mg/kg dry	510	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.6	U	mg/kg dry	2.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	1.1	J, Q-2	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	7.7		mg/kg dry	6.1	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104E-SD

Lab ID: C143301-10

MD No: 9106 CHEM

Station ID: GML104E

Matrix: Sediment

D No: 9106 SHEALY

Date Collected: 7/29/14 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		7/31/14	8/01/14	CLP Inorganics
57-12-5	Cyanide	0.66	U	mg/kg dry	0.66	7/31/14	8/01/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104M-SD

Lab ID: C143301-11

MD No: 9107 CHEM

Station ID: GML104M

Matrix: Sediment

D No: 9107 SHEALY

Date Collected: 7/29/14 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.053	J, Q-2	mg/kg dry	0.13	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	650		mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	0.20	J, Q-2	mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.98	U	mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	4.8	J, Q-2	mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.10	J, Q-2	mg/kg dry	0.49	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.060	J, Q-2	mg/kg dry	0.49	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	270	J, Q-2	mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	11		mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.19	J, Q-2	mg/kg dry	4.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	5.7		mg/kg dry	2.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	460		mg/kg dry	9.8	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	1.6		mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	33	J, Q-2	mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	10		mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	1.8	J, Q-2	mg/kg dry	3.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	490	U	mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.23	J, CLP36, Q-2	mg/kg dry	3.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.98	U	mg/kg dry	0.98	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	49	J, Q-2	mg/kg dry	490	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.5	U	mg/kg dry	2.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	4.1	J, Q-2	mg/kg dry	4.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	13		mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104M-SD

Lab ID: C143301-11

MD No: 9107 CHEM

Station ID: GML104M

Matrix: Sediment

D No: 9107 SHEALY

Date Collected: 7/29/14 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.64	U	mg/kg dry	0.64	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104W-SD

Lab ID: C143301-12

MD No: 9108 CHEM

Station ID: GML104W

Matrix: Sediment

D No: 9108 SHEALY

Date Collected: 7/29/14 12:21

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.13	U	mg/kg dry	0.13	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	1100		mg/kg dry	19	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.7	U	mg/kg dry	5.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.34	J, Q-2, CLP36	mg/kg dry	0.94	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	12	J, Q-2	mg/kg dry	19	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.14	J, Q-2	mg/kg dry	0.47	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.090	J, Q-2	mg/kg dry	0.47	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	450	J, Q-2	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	2.4		mg/kg dry	0.94	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	2.2	J, Q-2	mg/kg dry	4.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	1.0	J, Q-2	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	1200		mg/kg dry	9.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	4.2		mg/kg dry	0.94	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	58	J, Q-2	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	54		mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	1.3	J, Q-2	mg/kg dry	3.8	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	470	U	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.31	J, CLP36, Q-2	mg/kg dry	3.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.94	U	mg/kg dry	0.94	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	52	J, Q-2	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.4	U	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	2.0	J, Q-2	mg/kg dry	4.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	11		mg/kg dry	5.7	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104W-SD

Lab ID: C143301-12

MD No: 9108 CHEM

Station ID: GML104W

Matrix: Sediment

D No: 9108 SHEALY

Date Collected: 7/29/14 12:21

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.65	U	mg/kg dry	0.65	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105E-SD

Lab ID: C143301-13

MD No: 9109 CHEM

Station ID: GML105E

Matrix: Sediment

D No: 9109 SHEALY

Date Collected: 7/29/14 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.017	J, Q-2	mg/kg dry	0.12	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	1100		mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.9	U	mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.99	U	mg/kg dry	0.99	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	5.6	J, Q-2	mg/kg dry	20	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.10	J, Q-2	mg/kg dry	0.50	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.030	J, Q-2	mg/kg dry	0.50	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	390	J, Q-2	mg/kg dry	500	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	5.1		mg/kg dry	0.99	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.46	J, Q-2	mg/kg dry	5.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.83	J, Q-2	mg/kg dry	2.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	230		mg/kg dry	9.9	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	2.6		mg/kg dry	0.99	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	50	J, Q-2	mg/kg dry	500	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	6.5		mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	10		mg/kg dry	4.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	500	U	mg/kg dry	500	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.47	J, CLP36, Q-2	mg/kg dry	3.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.99	U	mg/kg dry	0.99	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	41	J, Q-2	mg/kg dry	500	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.5	U	mg/kg dry	2.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	1.1	J, Q-2	mg/kg dry	5.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	8.6		mg/kg dry	5.9	8/01/14	8/01/14	CLP ISM01.3 P



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105E-SD

Lab ID: C143301-13

MD No: 9109 CHEM

Station ID: GML105E

Matrix: Sediment

D No: 9109 SHEALY

Date Collected: 7/29/14 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.63	U	mg/kg dry	0.63	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105M-SD

Lab ID: C143301-14

MD No: 9110 CHEM

Station ID: GML105M

Matrix: Sediment

D No: 9110 SHEALY

Date Collected: 7/29/14 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	280		mg/kg dry	17	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.1	U	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.85	U	mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	2.3	J, Q-2	mg/kg dry	17	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.42	U	mg/kg dry	0.42	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.020	J, Q-2	mg/kg dry	0.42	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	76	J, Q-2	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	0.91		mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.24	J, Q-2	mg/kg dry	4.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.27	J, Q-2	mg/kg dry	2.1	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	200		mg/kg dry	8.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	0.84	J, Q-2	mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	14	J, Q-2	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	6.1		mg/kg dry	1.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	1.1	J, Q-2	mg/kg dry	3.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	420	U	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	3.0	U	mg/kg dry	3.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.85	U	mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	27	J, Q-2	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.1	U	mg/kg dry	2.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	4.2	U	mg/kg dry	4.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	5.1	J, Q-2	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105M-SD

Lab ID: C143301-14

MD No: 9110 CHEM

Station ID: GML105M

Matrix: Sediment

D No: 9110 SHEALY

Date Collected: 7/29/14 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.63	U	mg/kg dry	0.63	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105W-SD

Lab ID: C143301-15

MD No: 9111 CHEM

Station ID: GML105W

Matrix: Sediment

D No: 9111 SHEALY

Date Collected: 7/22/14 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.19		mg/kg dry	0.17	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	7200		mg/kg dry	25	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	0.32	J, Q-2	mg/kg dry	7.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	1.5	CLP36	mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	48		mg/kg dry	25	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.41	J, Q-2	mg/kg dry	0.62	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.24	J, Q-2	mg/kg dry	0.62	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	950		mg/kg dry	620	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	17		mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	3.8	J, Q-2	mg/kg dry	6.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	4.9		mg/kg dry	3.1	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	4000		mg/kg dry	12	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	24		mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	210	J, Q-2	mg/kg dry	620	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	110		mg/kg dry	1.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	6.2		mg/kg dry	4.9	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	620	U	mg/kg dry	620	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.33	J, CLP36, Q-2	mg/kg dry	4.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.36	J, Q-2	mg/kg dry	1.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	120	J, Q-2	mg/kg dry	620	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	3.1	U	mg/kg dry	3.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	11		mg/kg dry	6.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	31		mg/kg dry	7.4	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105W-SD

Lab ID: C143301-15

MD No: 9111 CHEM

Station ID: GML105W

Matrix: Sediment

D No: 9111 SHEALY

Date Collected: 7/22/14 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	56		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.89	U	mg/kg dry	0.89	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106E-SD

Lab ID: C143301-16

MD No: 9113 CHEM

Station ID: GML106E

Matrix: Sediment

D No: 9113 SHEALY

Date Collected: 7/29/14 11:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	J, Q-2	mg/kg dry	0.18	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	4500		mg/kg dry	29	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	8.7	U	mg/kg dry	8.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.84	J, CLP36, Q-2	mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	38		mg/kg dry	29	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.44	J, Q-2	mg/kg dry	0.73	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.12	J, Q-2	mg/kg dry	0.73	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	670	J, Q-2	mg/kg dry	730	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	9.5		mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	2.6	J, Q-2	mg/kg dry	7.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	5.0		mg/kg dry	3.6	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	2500		mg/kg dry	14	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	14		mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	140	J, Q-2	mg/kg dry	730	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	54		mg/kg dry	2.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	3.3	J, Q-2	mg/kg dry	5.8	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	730	U	mg/kg dry	730	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.70	J, CLP36, Q-2	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.14	J, Q-2	mg/kg dry	1.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	89	J, Q-2	mg/kg dry	730	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	3.6	U	mg/kg dry	3.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	8.3		mg/kg dry	7.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	14		mg/kg dry	8.7	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106E-SD

Lab ID: C143301-16

MD No: 9113 CHEM

Station ID: GML106E

Matrix: Sediment

D No: 9113 SHEALY

Date Collected: 7/29/14 11:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	52		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.95	U	mg/kg dry	0.95	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106M-SD

Lab ID: C143301-17

MD No: 9112 CHEM

Station ID: GML106M

Matrix: Sediment

D No: 9112 SHEALY

Date Collected: 7/29/14 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.015	J, Q-2	mg/kg dry	0.11	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	1200		mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.4	U	mg/kg dry	5.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.32	J, CLP36, Q-2	mg/kg dry	0.90	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	11	J, Q-2	mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.13	J, Q-2	mg/kg dry	0.45	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.060	J, Q-2	mg/kg dry	0.45	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	400	J, Q-2	mg/kg dry	450	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	3.1		mg/kg dry	0.90	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	1.5	J, Q-2	mg/kg dry	4.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.89	J, Q-2	mg/kg dry	2.2	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	1000		mg/kg dry	9.0	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	3.7		mg/kg dry	0.90	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	52	J, Q-2	mg/kg dry	450	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	52		mg/kg dry	1.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	1.4	J, Q-2	mg/kg dry	3.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	450	U	mg/kg dry	450	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.29	J, CLP36, Q-2	mg/kg dry	3.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.90	U	mg/kg dry	0.90	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	27	J, Q-2	mg/kg dry	450	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.2	U	mg/kg dry	2.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	1.9	J, Q-2	mg/kg dry	4.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	10		mg/kg dry	5.4	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106M-SD

Lab ID: C143301-17

MD No: 9112 CHEM

Station ID: GML106M

Matrix: Sediment

D No: 9112 SHEALY

Date Collected: 7/29/14 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.65	U	mg/kg dry	0.65	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106W-SD

Lab ID: C143301-18

MD No: 9114 CHEM

Station ID: GML106W

Matrix: Sediment

D No: 9114 SHEALY

Date Collected: 7/29/14 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.0036	J, Q-2	mg/kg dry	0.11	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	720		mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.5	U	mg/kg dry	5.5	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.26	J, CLP36, Q-2	mg/kg dry	0.91	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	6.7	J, Q-2	mg/kg dry	18	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.46	U	mg/kg dry	0.46	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.030	J, Q-2	mg/kg dry	0.46	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	210	J, Q-2	mg/kg dry	460	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	2.1		mg/kg dry	0.91	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.60	J, Q-2	mg/kg dry	4.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.44	J, Q-2	mg/kg dry	2.3	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	500		mg/kg dry	9.1	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	1.6		mg/kg dry	0.91	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	35	J, Q-2	mg/kg dry	460	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	21		mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.74	J, Q-2	mg/kg dry	3.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	460	U	mg/kg dry	460	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	3.2	U	mg/kg dry	3.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.91	U	mg/kg dry	0.91	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	460	U	mg/kg dry	460	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.3	U	mg/kg dry	2.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	1.0	J, Q-2	mg/kg dry	4.6	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	6.2		mg/kg dry	5.5	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106W-SD

Lab ID: C143301-18

MD No: 9114 CHEM

Station ID: GML106W

Matrix: Sediment

D No: 9114 SHEALY

Date Collected: 7/29/14 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.60	U	mg/kg dry	0.60	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107E-SD

Lab ID: C143301-19

MD No: 9116 CHEM

Station ID: GML107E

Matrix: Sediment

D No: 9116 SHEALY

Date Collected: 7/29/14 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	850		mg/kg dry	19	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.7	U	mg/kg dry	5.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.95	U	mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	6.3	J, Q-2	mg/kg dry	19	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.070	J, Q-2	mg/kg dry	0.47	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.030	J, Q-2	mg/kg dry	0.47	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	170	J, Q-2	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	1.8		mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	1.3	J, Q-2	mg/kg dry	4.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.54	J, Q-2	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	770		mg/kg dry	9.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	2.0		mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	33	J, Q-2	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	31		mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.72	J, Q-2	mg/kg dry	3.8	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	470	U	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	0.15	J, CLP36, Q-2	mg/kg dry	3.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.95	U	mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	470	U	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.4	U	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	1.4	J, Q-2	mg/kg dry	4.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	6.9		mg/kg dry	5.7	8/01/14	8/01/14	CLP ISM01.3 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107E-SD

Lab ID: C143301-19

MD No: 9116 CHEM

Station ID: GML107E

Matrix: Sediment

D No: 9116 SHEALY

Date Collected: 7/29/14 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	75		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.67	U	mg/kg dry	0.67	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107M-SD

Lab ID: C143301-20

MD No: 9117 CHEM

Station ID: GML107M

Matrix: Sediment

D No: 9117 SHEALY

Date Collected: 7/29/14 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.12	U	mg/kg dry	0.12	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	300		mg/kg dry	19	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.7	U	mg/kg dry	5.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.95	U	mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	1.5	J, Q-2	mg/kg dry	19	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.47	U	mg/kg dry	0.47	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.010	J, Q-2	mg/kg dry	0.47	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	55	J, Q-2	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	1.1		mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.21	J, Q-2	mg/kg dry	4.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	2.4	U	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	350		mg/kg dry	9.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	0.58	J, Q-2	mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	13	J, Q-2	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	5.9		mg/kg dry	1.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.72	J, Q-2	mg/kg dry	3.8	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	470	U	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	3.3	U	mg/kg dry	3.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.95	U	mg/kg dry	0.95	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	470	U	mg/kg dry	470	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.4	U	mg/kg dry	2.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	0.68	J, Q-2	mg/kg dry	4.7	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	5.8		mg/kg dry	5.7	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107M-SD

Lab ID: C143301-20

MD No: 9117 CHEM

Station ID: GML107M

Matrix: Sediment

D No: 9117 SHEALY

Date Collected: 7/29/14 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.61	U	mg/kg dry	0.61	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Total Metals

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107W-SD

Lab ID: C143301-21

MD No: 9115 CHEM

Station ID: GML107W

Matrix: Sediment

D No: 9115 SHEALY

Date Collected: 7/29/14 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.11	U	mg/kg dry	0.11	7/31/14	8/01/14	CLP ISM01.3 CV
7429-90-5	Aluminum	650		mg/kg dry	17	8/01/14	8/01/14	CLP ISM01.3 P
7440-36-0	Antimony	5.1	U	mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-38-2	Arsenic	0.85	U	mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7440-39-3	Barium	5.2	J, Q-2	mg/kg dry	17	8/01/14	8/01/14	CLP ISM01.3 P
7440-41-7	Beryllium	0.090	J, Q-2	mg/kg dry	0.42	8/01/14	8/01/14	CLP ISM01.3 P
7440-43-9	Cadmium	0.030	J, Q-2	mg/kg dry	0.42	8/01/14	8/01/14	CLP ISM01.3 P
7440-70-2	Calcium	130	J, Q-2	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7440-47-3	Chromium	1.9		mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7440-48-4	Cobalt	0.44	J, Q-2	mg/kg dry	4.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-50-8	Copper	0.39	J, Q-2	mg/kg dry	2.1	8/01/14	8/01/14	CLP ISM01.3 P
7439-89-6	Iron	410		mg/kg dry	8.5	8/01/14	8/01/14	CLP ISM01.3 P
7439-92-1	Lead	1.8		mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7439-95-4	Magnesium	26	J, Q-2	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7439-96-5	Manganese	14		mg/kg dry	1.3	8/01/14	8/01/14	CLP ISM01.3 P
7440-02-0	Nickel	0.95	J, Q-2	mg/kg dry	3.4	8/01/14	8/01/14	CLP ISM01.3 P
7440-09-7	Potassium	420	U	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7782-49-2	Selenium	3.0	U	mg/kg dry	3.0	8/01/14	8/01/14	CLP ISM01.3 P
7440-22-4	Silver	0.85	U	mg/kg dry	0.85	8/01/14	8/01/14	CLP ISM01.3 P
7440-23-5	Sodium	420	U	mg/kg dry	420	8/01/14	8/01/14	CLP ISM01.3 P
7440-28-0	Thallium	2.1	U	mg/kg dry	2.1	8/01/14	8/01/14	CLP ISM01.3 P
7440-62-2	Vanadium	0.96	J, Q-2	mg/kg dry	4.2	8/01/14	8/01/14	CLP ISM01.3 P
7440-66-6	Zinc	7.6		mg/kg dry	5.1	8/01/14	8/01/14	CLP ISM01.3 P



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Denise Goddard

Classical/Nutrient Analyses

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107W-SD

Lab ID: C143301-21

MD No: 9115 CHEM

Station ID: GML107W

Matrix: Sediment

D No: 9115 SHEALY

Date Collected: 7/29/14 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		8/04/14	8/05/14	CLP Inorganics
57-12-5	Cyanide	0.63	U	mg/kg dry	0.63	8/04/14	8/05/14	CLP ISM01.3 AS



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D.A.R.T. Id: 14-0383
Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

September 16, 2014

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 14-0383, Greenwood Mills Liner Plt
Superfund Remedial

FROM: Nancy Seabolt
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Corey Hendrix

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these dat

Analyses Included in this report:

Method Used:

PCB Aroclors (PCBA)

PCB aroclors

CLP Aroclors (Soil)



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Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

Report Narrative for Work Order C143301, Project: 14-0383

Site Name: Greenwood Mills Liner Pit, Orangeburg, SC
CLP Case No. 44545, ELEMENT Sample Nos. C143301-01 through C143301-20
C143302-01 (PES only)

Organic Analysis: Shealy Environmental Services, Inc., West Columbia, SC

The ESAT Work Team reviewed data for twenty soil samples analyzed for PCB Aroclors per CLP Statement of Work SOM01.2. The samples were collected between 07/22/14 and 07/29/14, and were received by the laboratory on 07/30/14. The final data package was received on 08/19/14 by the USEPA Quality Assurance Section, Region 4 SEDS/MTSB. The analytical results were reported in one sample delivery groups (SDGs) by the laboratory. In addition to the field samples, the laboratory also analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods.

All samples were received at a cooler temperature of 7.3 °C. Samples should be received by the laboratory at a temperature of ≤6.0 °C. Data qualification was not performed on the basis of cooler temperatures recorded upon sample receipt.

The laboratory satisfied all technical analysis and extraction holding time requirements, except for the extraction of sample C143301-15. Per Chain of Custody (COC) information, sample C143301-15 was collected on 07/22/14 and all other samples were collected on 07/29/14. Since the extraction holding time was exceeded, all results for sample C143301-15 were qualified "J" (H-7). A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

There were no anomalies associated with the Aroclor data requiring further qualification of results.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SEDS Records Center.

cc: Nardina Turner



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

SAMPLES INCLUDED IN THIS REPORT

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
GML-101E-SD	C143301-01	9097	9097	Sediment	7/29/14 17:20
GML-101M-SD	C143301-02	9098	9098	Sediment	7/29/14 17:17
GML-101W-SD	C143301-03	9099	9099	Sediment	7/29/14 17:12
GML-102E-SD	C143301-04	9101	9101	Sediment	7/29/14 16:55
GML-102M-SD	C143301-05	9100	9100	Sediment	7/29/14 16:57
GML-102W-SD	C143301-06	9102	9102	Sediment	7/29/14 17:04
GML-103E-SD	C143301-07	9105	9105	Sediment	7/29/14 11:50
GML-103M-SD	C143301-08	9104	9104	Sediment	7/29/14 11:25
GML-103W-SD	C143301-09	9103	9103	Sediment	7/29/14 11:30
GML-104E-SD	C143301-10	9106	9106	Sediment	7/29/14 12:25
GML-104M-SD	C143301-11	9107	9107	Sediment	7/29/14 12:15
GML-104W-SD	C143301-12	9108	9108	Sediment	7/29/14 12:21
GML-105E-SD	C143301-13	9109	9109	Sediment	7/29/14 11:50
GML-105M-SD	C143301-14	9110	9110	Sediment	7/29/14 12:45
GML-105W-SD	C143301-15	9111	9111	Sediment	7/22/14 12:50
GML-106E-SD	C143301-16	9113	9113	Sediment	7/29/14 11:20
GML-106M-SD	C143301-17	9112	9112	Sediment	7/29/14 11:15
GML-106W-SD	C143301-18	9114	9114	Sediment	7/29/14 13:20
GML-107E-SD	C143301-19	9116	9116	Sediment	7/29/14 14:20
GML-107M-SD	C143301-20	9117	9117	Sediment	7/29/14 14:30
GML-107W-SD	C143301-21	9115	9115	Sediment	7/29/14 14:00



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Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
H-7	Recommended preparation holding time exceeded
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101E-SD

Lab ID: C143301-01

MD No: 9097 CHEM

Station ID: GML101E

Matrix: Sediment

D No: 9097 SHEALY

Date Collected: 7/29/14 17:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	69		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	30	J, CLP01	ug/kg dry	100	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	100	U	ug/kg dry	100	8/06/14	8/12/14	CLP SOM01.2 A



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Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101M-SD

Lab ID: C143301-02

MD No: 9098 CHEM

Station ID: GML101M

Matrix: Sediment

D No: 9098 SHEALY

Date Collected: 7/29/14 17:17

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	31		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A



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D.A.R.T. Id: 14-0383

Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-101W-SD

Lab ID: C143301-03

MD No: 9099 CHEM

Station ID: GML101W

Matrix: Sediment

D No: 9099 SHEALY

Date Collected: 7/29/14 17:12

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	63		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	14	J, CLP01	ug/kg dry	87	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	87	U	ug/kg dry	87	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102E-SD

Lab ID: C143301-04

MD No: 9101 CHEM

Station ID: GML102E

Matrix: Sediment

D No: 9101 SHEALY

Date Collected: 7/29/14 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102M-SD

Lab ID: C143301-05

MD No: 9100 CHEM

Station ID: GML102M

Matrix: Sediment

D No: 9100 SHEALY

Date Collected: 7/29/14 16:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	42	U	ug/kg dry	42	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-102W-SD

Lab ID: C143301-06

MD No: 9102 CHEM

Station ID: GML102W

Matrix: Sediment

D No: 9102 SHEALY

Date Collected: 7/29/14 17:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	34		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	48	U	ug/kg dry	48	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103E-SD

Lab ID: C143301-07

MD No: 9105 CHEM

Station ID: GML103E

Matrix: Sediment

D No: 9105 SHEALY

Date Collected: 7/29/14 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	61		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	83	U	ug/kg dry	83	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103M-SD

Lab ID: C143301-08

MD No: 9104 CHEM

Station ID: GML103M

Matrix: Sediment

D No: 9104 SHEALY

Date Collected: 7/29/14 11:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	21		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-103W-SD

Lab ID: C143301-09

MD No: 9103 CHEM

Station ID: GML103W

Matrix: Sediment

D No: 9103 SHEALY

Date Collected: 7/29/14 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	55		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	70	U	ug/kg dry	70	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	70	U	ug/kg dry	70	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104E-SD

Lab ID: C143301-10

MD No: 9106 CHEM

Station ID: GML104E

Matrix: Sediment

D No: 9106 SHEALY

Date Collected: 7/29/14 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104M-SD

Lab ID: C143301-11

MD No: 9107 CHEM

Station ID: GML104M

Matrix: Sediment

D No: 9107 SHEALY

Date Collected: 7/29/14 12:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	28		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	5.4	J, CLP01	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	45	U	ug/kg dry	45	8/06/14	8/12/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-104W-SD

Lab ID: C143301-12

MD No: 9108 CHEM

Station ID: GML104W

Matrix: Sediment

D No: 9108 SHEALY

Date Collected: 7/29/14 12:21

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	30		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	47	U	ug/kg dry	47	8/06/14	8/12/14	CLP SOM01.2 A



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Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105E-SD

Lab ID: C143301-13

MD No: 9109 CHEM

Station ID: GML105E

Matrix: Sediment

D No: 9109 SHEALY

Date Collected: 7/29/14 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	29		%		8/06/14	8/12/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	46	U	ug/kg dry	46	8/06/14	8/12/14	CLP SOM01.2 A



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Project: 14-0383, Greenwood Mills Liner Plt - Reported by Nancy Seabolt

PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105M-SD

Lab ID: C143301-14

MD No: 9110 CHEM

Station ID: GML105M

Matrix: Sediment

D No: 9110 SHEALY

Date Collected: 7/29/14 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-105W-SD

Lab ID: C143301-15

MD No: 9111 CHEM

Station ID: GML105W

Matrix: Sediment

D No: 9111 SHEALY

Date Collected: 7/22/14 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	46		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	40	J, H-7, CLP01	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	58	U, J, H-7	ug/kg dry	58	8/06/14	8/13/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106E-SD

Lab ID: C143301-16

MD No: 9113 CHEM

Station ID: GML106E

Matrix: Sediment

D No: 9113 SHEALY

Date Collected: 7/29/14 11:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	52		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	9.3	J, CLP01	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	66	U	ug/kg dry	66	8/06/14	8/13/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106M-SD

Lab ID: C143301-17

MD No: 9112 CHEM

Station ID: GML106M

Matrix: Sediment

D No: 9112 SHEALY

Date Collected: 7/29/14 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	32		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	47	U	ug/kg dry	47	8/06/14	8/13/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-106W-SD

Lab ID: C143301-18

MD No: 9114 CHEM

Station ID: GML106W

Matrix: Sediment

D No: 9114 SHEALY

Date Collected: 7/29/14 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107E-SD

Lab ID: C143301-19

MD No: 9116 CHEM

Station ID: GML107E

Matrix: Sediment

D No: 9116 SHEALY

Date Collected: 7/29/14 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	43	U	ug/kg dry	43	8/06/14	8/13/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107M-SD

Lab ID: C143301-20

MD No: 9117 CHEM

Station ID: GML107M

Matrix: Sediment

D No: 9117 SHEALY

Date Collected: 7/29/14 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	41	U	ug/kg dry	41	8/06/14	8/13/14	CLP SOM01.2 A



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PCB Aroclors

Project: 14-0383, Greenwood Mills Liner Plt

Contract Lab Case: 44545

Sample ID: GML-107W-SD

Lab ID: C143301-21

MD No: 9115 CHEM

Station ID: GML107W

Matrix: Sediment

D No: 9115 SHEALY

Date Collected: 7/29/14 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		8/06/14	8/13/14	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	8/06/14	8/13/14	CLP SOM01.2 A